



San Diego, California | www.HealthyDiningFinder.com

Accents On Health

Digital Communications

Technology Description: Healthy Restaurant Dining

Company Description: The company's mission – contributing to a healthier America in a delicious way – integrates the brainpower, artistry and passion of the restaurant industry with passionate registered dietitians and public health leaders. The company's mission – contributing to a healthier America in a delicious way – integrates the brainpower, artistry and passion of the restaurant industry with passionate registered dietitians and public health leaders. Our technologies meet the needs of the 1M restaurants in the US as well as the 150M Americans with nutrition-related health problems. We are in the process of getting ready to raise capital to scale up and build our tech, marketing and sales teams to meet the nutrition-related market gaps in the restaurant industry.



Innovative motion + Positive outcomes


Bellefonte, Pennsylvania | www.actuatedmedical.com


Actuated Medical, Inc.

Medical Devices

Technology Description: Reduction of Force Bone Biopsy Device

Company Description: Actuated Medical, Inc. (AMI) develops and manufactures state-of-the-art medical devices that incorporate Innovative Motion®, allowing clinicians to perform faster, easier, and safer procedures. These commercial ready innovations are FDA cleared, ISO certified (cGMP compliant), and licensed to firms with established global presence. The Biopsy Force Reduction System (BI-FOR™) employs vibration of biopsy needles allowing for easier and more reliable access for lesion sampling. Globally, 3.9 Million diagnostic marrow procedures occur annually. It is estimated that 50,000 bone lesion biopsies occur annually.

 <p>St. Paul, Minnesota www.advancedcirculatory.com</p>	<p>Advanced Circulatory Systems, Inc. Medical Devices</p>
<p>Technology Description: Perfusion on Demand is a non-invasive therapy that increases circulation, protecting the heart, brain and other vital organs when blood flow is compromised.</p> <p>Company Description: Advanced Circulatory has developed a novel platform therapy called Perfusion on Demand™- a therapy that has life saving implications for multiple emergency medical and critical care conditions with a total estimated global market opportunity of \$4.1 billion. Advanced Circulatory anticipates delivering three additional products to the market during the next three years that will further improve survival rates and collectively address the entire \$1.1 billion Resuscitation and Critical Care markets for sudden cardiac arrest. The markets for therapies in which Perfusion on Demand will compete are valued at a combined \$26.3 billion globally. The total opportunity for the Perfusion on Demand therapy itself, estimated at \$4.1 billion, consists of both share gains and market expansion within these markets.</p>	

 <p>Lenoir City, Tennessee www.advancedplasmaproducts.com</p>	<p>Advanced Plasma Products, Inc Biotechnology for Healthcare</p>
<p>Technology Description: Treating Chronic Wounds with Atmospheric Plasma</p> <p>Company Description: Advanced Plasma Products (APP), Inc. is a science and engineering company developing and commercializing products based upon its patented One Atmosphere Uniform Glow Discharge Plasma technology in diverse high growth markets such as healthcare, biotechnology, and agriculture/food processing. APP is developing its technology into the Atmospheric Plasma Wound Applicator (APWA) device for chronic wound disinfection that will annihilate biofilm infection and stimulate wound healing. The total market for advanced wound care in the U.S. was estimated to be \$6.8 billion in 2011, and is forecasted to increase to more than \$16 billion by 2017. We are looking for capital to finalize the APWA and we are looking for a strategic partner experienced in the wound market and medical device manufacturing.</p>	



Redwood City, California | www.afasci.com

Afasci, Inc.

Pharmaceuticals

Technology Description: Probe ML218 for treatment of neuropathic pain

Company Description: AfaSci commits to enhance health care by conducting R&D in both Biotechnology and Therapeutics. The long-term goal of AfaSci is to grow into a biopharma R&D company specializing in the CNS therapeutic area, through continual collaborations with universities, research institutions and partnering with pharmaceutical companies. AfaSci has established two divisions: Technology Development and Therapeutic Discovery. AfaSci started with designing, producing and marketing our innovative technology platform-SmartCage™. Taking advantage of our proprietary technologies, revenue from product sale, services and NIH grant support, AfaSci conducts phenotypic therapeutic discovery focusing on pain and other CNS disorders.



N. Chesterfield, Virginia | www.algorithmrx.com

AlgorithmRx, LLC

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: aRx Statin Advisor/Health IT

Company Description: AlgorithmRx, LLC develops and delivers innovative, personalized, predictive healthcare algorithms at the point of care. Our computer-based clinical decision-support (CDS) system analyzes individual patient medical record data in real-time to provide busy clinicians with up-to-date, evidence-based guidance to identify treatment risk, and enhance medication selection. The company's lead product, Statin Advisor, may significantly reduce short-term treatment costs by identifying the most effective treatment for individual patients, thus eliminating repeat visits to the physician and unnecessary prescription changes. aRx's will ultimately offer a suite of complementary algorithms to address multiple chronic conditions. The long-term vision for the company is as a stand-alone business or as a strategic acquisition candidate.



Bradenton, Florida | www.avalonbiomed.com

Avalon Biomed

Medical Devices

Technology Description: Dental materials

Company Description: Avalon Biomed is the corporation created in 2010 to commercialize bioactive dental cements. Our bioactive cement products provide improved healing for several dental procedures. This type of cement saves primary and secondary teeth from extraction more often than the clinically inferior alternatives. Avalon Biomed products are sold directly to dentists in the USA and Canada and through dealers overseas.




San Diego, California | www.avantgen.com


AvantGen, Inc.

Biotechnology for Healthcare

Technology Description: Yeast display platform

Company Description: AvantGen was founded in 2006 to develop new technologies for novel antibody discovery. Since then, AvantGen has developed a proprietary yeast display system and constructed large human antibody libraries for rapid discovery of human antibodies for therapeutic development. Our current market entry strategy is to develop partnerships with companies that already have a presence in the clinical diagnostic kit market. However, longer term, the goal is to be able to develop the capacity to produce clinical grade diagnostic kits in-house either for sales through 3rd parties or by direct marketing to improve the revenue stream

 <p>Scottsdale, Arizona www.axxessunlimited.com</p>	<p>Axxess Unlimited Diagnostics</p>
<p>Technology Description: Interlock/Breathalyze/Native App Integration</p> <p>Company Description: Education and Controls company (Hardware/Software solutions) in the alcohol and drug sector. BAC-Pack is currently in discussion with Avnet to assist with designing the first US based Interlock device (Axxess Unlimited has a patent pending on the design – filed 7/16/2012) that encompasses a “plug-n-play” strategy. The device will be designed to interact directly with the OBD (on-board diagnostics) port and communicate directly to the individuals’ smartphone via Bluetooth Technology. In conjunction with the BAC-Pack, our OBDLock device will work directly with the OBD port on a vehicle. Installation costs will be drastically reduced compared to current interlock systems and will be able to communicate with our software app for reporting and auto-ignition requests by the user.</p>	

 <p>Worcester, Massachusetts www.brmcro.com</p>	<p>BioMedical Research Models, Inc. Pharmaceuticals</p>
<p>Technology Description: Mucosal Vaccine for Genital Herpes HSV-2</p> <p>Company Description: BRM has used a combination of private equity, profits from a service business and \$9 Million in USPHS grants to develop a novel, heterologous (i.e. systemic/mucosal) vaccine technology. BRM's patented vaccine platform (prime with DNA and Boost via a proprietary nano particle containing an antigen) results in a stimulation of both a humoral and T-cell response, unlike most current vaccine technology platforms which primarily stimulate only one element of the immune response. The BRM technology platform stimulates a balanced triad of immune responses: robust systemic humoral responses, pathogen specific T cell responses, and the strong stimulation of mucosal immunity. This makes our vaccine technology ideal for several mucosally transmitted infectious disease targets (genital herpes) that have previously been intractable to the development of a successful vaccine.</p>	



Biorasis, Inc.
Long Term, Real Time Glucose and Metabolic Monitoring.

Storrs, Connecticut | www.bio-orasis.com

Biorasis, Inc.
Medical Devices

Technology Description: Implantable Biosensors

Company Description: Biorasis is a medical device start-up involved in the development of miniaturized, wireless, implantable biosensors for glucose monitoring which have potential to improve the management of Diabetes. Our recently developed Glucowizzard is a miniaturized wireless, needle-implantable biosensor for continuous glucose monitoring (CGM) in Diabetes management. The sensor is implanted 2-3 mm under the skin and interfaces wirelessly with its communicator. This unobtrusive technology has a significantly higher lifetime than any other product of its kind in the market. There are over 347 million diabetics - a significantly large market - that will greatly benefit from this device.



Monument, Colorado | www.biorealmresearch.com

BioRealm, LLC
Diagnostics

Technology Description: Smokescreen: Genetic Screening Tool for Tobacco Dependence and Treatment Approaches

Company Description: BioRealm uses novel technology to provide bioinformatics, biostatistics, and data management and expertise to researcher and product development teams. A recently developed platform called Smokescreen for researching the genetics of addiction, treatment response, and attributable diseases and co-morbidities. The technology consists of three related components: (1) Smokescreen Genotyping Array. The most comprehensive genotyping platform available for addiction research, with 19 content modules and nearly 650,000 Single Nucleotide Polymorphisms (SNPs); (2) Smokescreen Software integrates genetic and non-genetic data, and automates many of the common bioinformatics and statistical genetics tasks; and (3) Statistical Modeling Framework. Developed to help find new associations in big data, using innovative statistical modeling guided by biological pathways.



Tempe, Arizona | www.BiosensingInstrument.com

Biosensing Instrument, Inc.

Medical Devices

Technology Description: Electrochemically Enhanced Plasmonic Imaging

Company Description: Biosensing Instrument Inc. (BI) is a global supplier of high performance surface plasmon resonance (SPR) solutions that are used in life sciences research and biosensor applications. It services diverse markets like drug discovery, food chemical sensors and environmental sciences. BI-SPR instruments are unique in their ability to monitor in ultra-high definition protein and cell interactions while in their natural environments without the assistance of conventional amplification techniques. BI's corporation headquarter is located in Arizona and has alliance partners in a number of countries around the world.



Portland, Oregon | www.biospeech.com

BioSpeech, Inc.

Healthcare IT
(software, simulation-based
solutions, educations and training)

Technology Description: Speech Technology

Company Description: BioSpeech is an Oregon early stage speech technology company designing software solutions to help individuals with speech, hearing, and learning problems. The system developed is an at-home iPad-based App that helps hearing aid users and cochlear implantees (re-)learn how to listen, via intensive speech sound training. The system's unique adaptivity feature gradually exposes the client to more difficult items ("climbing the difficulty staircase"), but only when ready. The system imposes minimal cognitive load and does not require reading ability, thus making the system accessible to children and to adults who are illiterate or are cognitively impaired.



Milton, Massachusetts | www.bodimojo.com

BodiMojo, Inc.

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: BodiMojo: A Behavioral Health Platform for Pediatric Patients

Company Description: BodiMojo, Inc. provides health organizations with innovative, technology-based patient engagement solutions to reach children and adolescents. The BodiMojo platform enables custom solutions for patient self-management of mental and physical health conditions and improves patient outcomes. Our proprietary technology provides a front-end iOS mobile app with a virtual buddy who delivers a 30-, 60-, or 90-day custom health program. The back-end is comprised of emotional modeling algorithms and a content management system tailored for specific patient populations.



Columbia, South Carolina | www.carbonix.org

CarboNix, LLC

Medical Devices

Technology Description: Control of indoor asthma triggers

Company Description: The CarboNix technology is based on compressed carbon dioxide to safely and effectively reduce the the level of indoor allergens that act as asthma triggers, especially those resulting from dust mites. The use of high pressure liquid carbon dioxide and dry ice pellets to freeze dust mites and remove allergenic debris from carpets and bedding. Allergies and allergy-induced asthma are a major health problem for Americans. More than 50 million Americans suffer from allergies, which are the sixth leading cause of chronic disease in the United States.



Boston, Massachusetts | www.cogitocorp.com

Cogito Health Diagnostics

Technology Description: Cogito Companion

Company Description: Cogito focuses on improving human interaction and patient self-care within healthcare. Cogito Companion is a mobile-enabled non-invasive tool for assessing changes in mental state. Companion delivers a cost efficient, patient-centric, scientifically validated system that (a) allows for seamless engagement between patients and clinicians and (b) enables a stepped-care approach for preventing and managing chronic mental health disorders. The software focuses on the extent to which behaviors are associated with changes in components of mental state.




Burlingame, California | www.collaborativedrug.com

Collaborative Drug Discovery, Inc.

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Informatics Drug Discovery Software

Company Description: Collaborative Drug Discovery, Inc. (CDD) provides a modern approach to drug discovery research informatics that is used by thousands of leading researchers in academia and industry. CDD's flagship product, the CDD Vault, is a uniquely collaborative, secure, hosted database that enables researchers to archive, mine, and selectively share preclinical research data. The system intelligently handles chemical structures and biological data to be equally useful for medicinal chemists and biologists. CDD was founded ten years ago after incubating within Eli Lilly. CDD is cash flow positive from sales revenues and is investing heavily in research and development to expand our offerings.

 <p>Belmont, Massachusetts www.cmed.cc</p>	<p>Collagen Medical, LLC Medical Devices</p>
<p>Technology Description: Medical Imaging</p> <p>Company Description: Collagen Medical discovers and develops molecular imaging pharmaceuticals for non-invasive, personalized assessment of disease pathology using standard clinical scanners (“Virtual Biopsy”). Following intravenous injection, Collagen's molecularly-targeted imaging agents selectively localize to and enhance images of diseased tissue, thus enabling physicians to diagnosis disease, inform treatment planning decisions, and monitor therapy. The Company's priority program focuses on diagnosing and staging liver fibrosis, a serious and underrecognized chronic obesity-related disease affecting millions of patients in the United States.</p>	

 <p>Hanover, New Hampshire www.creare.com</p>	<p>Creare, LLC Healthcare IT (software, simulation-based solutions, educations and training)</p>
<p>Technology Description: Medication adherence for clinical trials</p> <p>Company Description: Creare was founded as an engineering service company in 1961. Its founding objectives include performing technically excellent work, focusing on results, providing an optimum environment for creative people, and commercializing innovations by the creation of autonomous product companies or licensing technology to existing organizations. Our mobile adherence monitoring system uses a cell phone to record real-time adherence through automated recognition of a pill in the hand of the user, and a low-cost mobile fluorometer to detect the presence of a confirmatory fluorescing biomarker in urine. The product will have high financial impact on the pharmaceutical industry since successful adherence during a clinical trial will lead to significant cost reductions.</p>	



Mountain View, California | www.cytobankinc.com

Cytobank, Inc.

Biotechnology for Healthcare

Technology Description: Single cell analysis

Company Description: Cytobank Inc. provides scientific, informatics and software solutions built on Cytobank®, a big data and analytics platform for single cell technologies. Cytobank is a cloud-based analytic platform that enables secure, rapid and efficient communication around single cell technologies within these disciplines. Technologies are revolutionizing how we understand disease mechanism with broad implications for treatment of human diseases, including HIV, autoimmune disorders, and cancer but are hampered by the lack of platforms with novel methods, visualizations and informatics infrastructure necessary to work with these datasets (up to 100-parameters per cell).



Spokane, Washington | www.DahlNatural.com

Dahl Natural, LLC

Industrial Biotechnology

Technology Description: Commercial Global Methods for Hapten Synthesis and Antibody Design, Electrochemical Sensor - ECM -600

Company Description: Biosense Solutions is woman-owned biotech company focused on development and manufacturing of a low cost disposable electrochemical sensor platform and protein based capture agents. The company has developed this technology for quick assessment or neutralization of biological and environmental toxins, to improve food and water safety, and protect human health. A key competitive feature of the molecular recognition technology is dual method of identification of targets to reduce or eliminate false positives and its large dynamic range of detection from ppm to ppt. Our method of hapten synthesis is fast, inexpensive, and pure, resulting in 90% yields and is 95% purity.



Carlsbad, California | www.dcn dx.com

DCN Diagnostics

Research Tools

Technology Description: Development of a blood cyanide sensor

Company Description: DCN is the go-to company for contract development and commercialization of high performance rapid assay systems. We focus on lateral flow, flow through and microfluidic assay formats. Our experience includes qualitative, quantitative, visual or reader-based, single- or multi-plexed assay systems for a wide variety of analytes, matrices and market segments. Our current objective is to complete the development of a field-deployable, fully integrated device for the rapid and early diagnosis of cyanide poisoning in whole blood. There are currently no comparable tests on the market. Our rapid test will serve as a screening and diagnostic tool to determine the amount of cyanide in a patients' blood in 5 minutes or less



Washington Crossing, Pennsylvania |
www.digitalsciencetechnologies.com

Digital Science Technologies, LLC

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Internet interventions for sexual and fertility problems related to cancer

Company Description: Digital Science Technologies LLC was established in 2008 by Paul Martinetti, MD, expert in health education and marketing. Since 2000, Dr. Martinetti has held 3 fast-track small business grants with Leslie Schover, PhD, at MD Anderson Cancer Center, developing online interventions for cancer patients on sexuality and fertility. Our online interventions help cancer patients/survivors and partners understand the effects of their treatment on sexuality and fertility, find expert medical help, view others' stories, and try interactive, cognitive-behavioral strategies to prevent or treat sexual problems. Our web sites are unique, covering all types of cancer.



San Diego, California | www.directelectron.com

Direct Electron, LP

Medical Devices

Technology Description: Direct Detection Device camera systems for Transmission Electron Microscopy

Company Description: Direct Electron (DE) provides premium performance camera systems for transmission electron microscopy. DE started the sub-5 angstrom resolution reconstruction revolution in biological cryo-TEM by introducing the first direct bombardment detector. Cryo-electron microscopy is the key tool for elucidating structure/function relationships in biologically important systems. DE has recently developed camera system that doesn't require a scintillator to down-convert high-energy electrons to visible photons for detection. This avoids image blurring and increases sensitivity. Any electron imaging that is limited by sensitivity, resolution, or field of view could benefit from the new technology.



Ension

Pittsburgh, Pennsylvania | www.ension.com

Ension, Inc.

Biotechnology for Healthcare

Technology Description: Ension Infection Resistant Surface

Company Description: Ension, Inc was founded by Drs. Philip Litwak and Mark Gartner in 2001 to pursue design and development of novel medical technologies. The Company has expanded its infrastructure to include biocompatible surface design and biomaterial modification and testing as well as regenerative product development. Ension's Infection Resistant Surface (EIRS) for Ventricular Assist Device (VAD) transcutaneous drivelines incorporates the controlled release of antimicrobials, a low adhesion surfaces that discourages the attachments of microbes and a regenerative collagen surface to promote healing and mitigate the immune response. EIRS is a biointegrative and anti-infection surface that manufacturers can use to prevent transcutaneous driveline infection and improve clinical outcome.



Woodland Hills, California | www.eyenuk.com

Eyenuk, Inc.

Medical Devices

Technology Description: High throughput, fully automated, diabetic retinopathy screening

Company Description: Eyenuk, Inc. is a world class technology company with the mission of developing scalable and innovative image analysis technologies to automate the detection of diseases from medical, particularly retinal, images. Eyenuk is primarily comprised of experts in computer vision, machine learning and image analysis with a combined experience of over 23 years in these fields. The growing number of diabetics worldwide is a huge social burden (estimated to be over 550 million worldwide by 2030). All the diabetics must undergo annual screening for diabetic retinopathy to identify and treat the preventable blindness due to this complication of diabetes. EyeArt, a product of Eyenuk provides automated diabetic retinopathy screening, achieves an impressive area under receiver operating characteristic (AUROC) of 0.95 for detecting DR onset (sensitivity of 90% at specificity of 85%), which matches the performance of a human grader.



Vista, California | www.farusllc.com

Farus, LLC

Medical Devices

Technology Description: Intraoral Ultrasound

Company Description: Farus is a medical device innovation company that is focused on developing unique solutions to a variety of clinical problems. The product is an intra-oral ultrasound probe for imaging within the mouth to provide real-time image guidance during dental implant procedures. The probe will be used for treatment planning prior to surgical placement of dental implants and for image-guidance during the surgical procedures. It is expected to lower the overall societal cost of implant therapy by decreasing the need for expensive adjunctive procedures caused by surgical, prosthodontic and esthetic complications; 150,000 such procedures were required in 2005-06. Additionally, the system will improve the quality and predictability of routine implant outcomes – important to both dentists and patients. No such devices are currently being marketed



Woburn, Massachusetts | www.ferrosi.com

Ferro Solutions, Inc.

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Optogenetic tools for activating and silencing specific neurons

Company Description: Ferro Solutions is an established technology development company located in Woburn, Massachusetts. We've developed a system to send power wirelessly to small, lightweight electronics on the bodies of small research animals. We are now extending this system with a number of new capabilities, creating a powerful and easy-to-use toolbox to support a large range of optogenetics experiments, both for empowering basic science researchers, and as prototypes of future clinical devices. FCC and safety certifications are expected in the Fall of 2014, with first commercial sales expected in Q4 2014. In parallel, we will work with commercial and consumer electronic clients to design wireless power systems for their products and sell components such as customer receive coils.




Falls Church, Virginia | www.fitinteractive.org

FIT Interactive, LLC

Healthcare IT
(software, simulation-based solutions, educations and training)

Technology Description: Dementia Research

Company Description: FIT Interactive is a research and development company that specializes in producing and evaluating tools and resources targeted to people living with dementia and their care partners. Founded in 2008, its mission is to promote quality of life, well-being, and engagement of those who are affected by Alzheimer's disease and other dementias. SHARE is an innovative 5-session evidence-based counseling program designed for PWDs and CGs who are in the earlier stages of dementia. Using iPad technology and other research-tested tools, the counselor and care partners work through sensitive topics regarding the PWD's future care needs, which benefits both in the short term and CGs in the long term because they are empowered to make care decisions based on the preferences of their PWD. The SHARE Online Training course uses innovative online course technology, iPad app tools for counselors, and research-tested materials to train counselors on an evidence-based program.

 <p>Bozeman, Montana www.genesearchinc.com</p>	<p>GeneSearch, Inc. Medical Devices</p>
<p>Technology Description: Biopsy and freezing of pre-implantation embryos</p> <p>Company Description: GeneSearch, Inc., exists to develop and deliver a new device for holding and performing manipulations on the early embryos of all mammals. Our device, The Embryo Cradle, can hold a portion of the surface of any preimplantation embryo for easy penetration to perform biopsy of only a few cells, or reduction of internal water volume before freezing. The Embryo Cradle can do some procedures that no current instrumentation can, but it is its wide range of capabilities, requiring minimal training and infrastructure, that will be most important.</p> <p>Our company and our research have been self-funded until assistance from NIH, ORIP, led to significant advances in the technology and the discovery of several important new applications for the Embryo Cradle.</p>	

 <p>Newton, Massachusetts www.ginerinc.com</p>	<p>Giner, Inc. Diagnostics</p>
<p>Technology Description: Lithium Monitor for Point of Care Use</p> <p>Company Description: Giner, Inc. is a world-class electrochemical technology company founded in 1973. R&D clients include government agencies and companies such as General Motors, Boeing and Lockheed. Giner has commercialized a series of products through partnerships, and currently generates 40% of its annual revenues from manufacturing. Giner's POC Lithium Monitor will be the first commercially-available device that offers real-time lithium monitoring at a clinician's office or a patient's home, including remote transmission to a clinician's office. Thus, the Giner POC Lithium Monitor will reduce the significant costs associated with frequent office visits and hospitalizations due to patient non-compliance or lithium toxicity.</p>	



From Life. For Life.

Salt Lake City, Utah | www.glycomira.com

GlycoMira Therapeutics, Inc.

Pharmaceuticals

Technology Description: Sulfated glycosaminoglycans as anti-inflammatory therapeutics

Company Description: GlycoMira Therapeutics, Inc. is developing the next generation of therapies for oral inflammatory diseases that plague half of all Americans. The global oral health market was valued at about \$1.6B in 2010 with expectations to grow to \$2.6B by 2018. Our focus includes periodontal disease, a common inflammatory disorder of the gingival tissues and bone for which there have been no new drugs developed in over a decade. GlycoMira has successfully completed the discovery stage of drug development. The candidate drug, GM-0111, is a synthetic polysaccharide which has demonstrated utility in a number of animal models to effectively and safely prevent inflammation. GM-0111 blocks multiple factors involved in inflammation, promising to be an effective therapeutic for oral inflammatory disease.



Athens, Georgia | www.glycosensors.com

Glycosensors and Diagnostics

Biotechnology for Healthcare

Technology Description: N-Glycan Lectenz(R)

Company Description: Glycosensors & Diagnostics, LLC is an early-stage biotechnology company founded in 2007 with the purpose of providing enabling technologies for applications in glycoscience. G&D is the developer of the novel Lectenz® biotechnology (international patent pending), an enabling technology for the rapidly increasing applications in disease biomarker detection and the production and development of therapeutic biologics, such as antibodies and other glycoproteins. G&D's technology overcomes the limitations of current technologies in meeting FDA and EMA requirements for characterization of complex carbohydrates (glycans) present in therapeutic biologics. This emerging technology will provide a new set of reagents to help facilitate glycomics and glycoproteomics at varying levels of the customer chain by impacting research scientists and biopharma manufacturing.



Edina, Minnesota | www.hcinteractive.com

HealthCare Interactive, Inc.

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Online, Video-based Training and Educational Programs

Company Description: HealthCare Interactive® is a privately-held health media company based in Minneapolis, MN that is recognized and recommended nationally for producing the most innovative set of dementia-related training programs available. The HealthCare Interactive CARES® product line is co-branded and co-marketed with the National Alzheimer's Association and is the only way in which individual care providers can get certified by the Alzheimer's Association. Innovation derives from real-life "before and after" video scenarios that make CARES® a recommended solution to the Centers for Medicare and Medicaid (CMS) new national goal of reducing the use of antipsychotic medications in long-stay nursing home residents by 25 percent by the end of 2015, and 30 percent by the end of 2016. The technology allows individual employees to sign on and complete the training (24/7) at their own pace, individually tracks completion rates, and provides monthly employee tracking information for administrators.



Brookline, Massachusetts | www.hypnalgessics.com

Hypnalgessics, LLC

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Comfort Talk®

Company Description: Hypnalgessics, LLC is a privately held start-up company, founded by Dr. Elvira Lang whose vision is that one day any patient who enters a hospital or doctor's office will be able to enjoy Comfort Talk® techniques for a better experience and a better outcome. In the U.S., pharmaceutical sedation risks 4,000 patients to suffer serious cardio-respiratory complications and 220 deaths each year; incompleteness of MRIs due to claustrophobia and disruptive patient motion wastes an estimated \$1.4 billion annually in reimbursement or overhead. Comfort Talk® is an innovative method of non-pharmaceutical patient sedation. Healthcare professionals are trained in "talking style" techniques that are complemented with hypnotic language allowing them to help reduce the anxiety, pain and distress of their patients.



Scottsdale, Arizona | www.yasobiotech.com

Iaso Biotechnology, Inc.

Pharmaceuticals

Technology Description: PPCM - a unique topical polymeric drug for the treatment and prevention of viral diseases including herpes simplex

Company Description: Yaso is an early stage company in preclinical development of a novel polymeric anti-viral drug, PPCM. This polymer drug is a potent attachment and fusion inhibitor which promises to be an effective multipurpose technology drug. PPCM prevents virus from attaching to a host cell, preventing herpes and HIV transmission during sexual intercourse. PPCM renders sperm infertile, thus could also be a non-hormonal vaginal contraceptive that is safe and non-irritating. There is no other topical drug under development with these broad activities that can be made into a pleasant and easy to use gel for consumers. This novel topical treatment will provide relief to millions of herpes sufferers as well as aid in the reduction of this incurable epidemic.



New York, New York

Innovative Elements, LLC

Biotechnology for Healthcare

Technology Description: Dentin and dental pulp regeneration

Company Description: Innovative Elements (IE) LLC, is a biotechnology company with a central goal to develop medical devices and biologics that regenerate human tissues and organs. IE is uniquely positioned to develop regenerative products and therapies on the basis of multiple intellectual properties available for licensing, in-house intellectual properties and expertise in stem cell biology and biomaterials technologies, proven ability to orchestrate preclinical and clinical studies/trials, and existing R&D records with funding from private sector, NIH SBIRs and biotech industry. A total of 16 million root canal therapies are performed each year in the US, with a total market expenditure of \$22B. Current therapies entail surgical extirpation of the infected dental pulp, disinfections, removal of dentin wall and filling of the emptied root canal with a natural latex. Negative complications of the current therapy is well documented in the literature, including reinfections, discoloration and brittle and weakened teeth leading to fractures. A patented technology that we developed has been tested in large animals and a Phase I/II clinical trial, and led to the regeneration of dental pulp and dentin.



Santa Clara, California | www.ifos.com

Intelligent Fiber Optic Systems Corporation

Medical Devices

Technology Description: MRI Compatible Fiber-optically Sensorized Needles for Cancer Biopsy

Company Description: IFOS develops, manufactures, and sells smart fiber optic sensing system products for the monitoring and control of high value assets in demanding situations. The company is an early mover in the field and leads in innovations that enable businesses to use optical sensing systems for monitoring and control of local and remote assets. Its products are developed for the medical, energy, and aerospace industries, which represent growing segments of the advanced optical sensing market. In IFOS' products, optical fiber is used as an active smart medium - simultaneously sensing, actuating, processing, and transmitting signals all in the photonic domain - rather than a passive light pipe acting only as a transmission medium. The uniqueness and economic competitiveness of its technology is evidenced by the sale of its pre-production units, resulting in revenue generation before any significant capitalization.




Eugene, Oregon | www.twofamiliesnow.com


IRIS Media, Inc.

Healthcare IT (software, simulation-based solutions, educations and training)


Technology Description: Two Families Now: Effective Parenting during Separation and Divorce

Company Description: IRIS Educational Media (IRIS Ed) is an online learning company that develops and produces innovative instructional courses, delivered via the internet, for parents and educators. IRIS Ed has developed Two Families Now (TFN), a parent education and family stabilization course for divorcing parents. TFN course content includes high-definition videos and supplementary interactive material provide training in foundational effective parenting during separation and divorce. The course materials are delivered online via computers, smartphones and tablets. The goal is to reach out to the ~25% of children of divorce that show serious mental health or life adjustment problems and have an increased risk for psychological and behavioral problems including substance abuse and depression.

 <p>Scottsdale, Arizona www.ironhorsedx.com</p>	<p>Iron Horse Diagnostics, Inc. Diagnostics</p>
<p>Technology Description: Diagnostic and Prognostic tests for ALS and traumatic brain injury</p> <p>Company Description: Iron Horse was formed in 2012 to create breakthrough diagnostic tests in neurologic disorders where there is high-unmet medical need. Iron Horse has developed and validated tests to measure protein-based signatures of diseases. ALS is devastating neurologic disease that is nearly always fatal within 5 years of clinical diagnosis and affects approximately 30,000 in the US. Our first product line will be blood-based and cerebrospinal fluid-based diagnostic tests for ALS, meanwhile monitoring ALS disease progression. Our next product line are blood-based tests to measure damage to the nervous system, with a blood-based test for TBI/concussion and a biomarker panel to measure overall damage to the nervous system. These products will also be used to test the effectiveness of drugs in clinical trials.</p>	

 <p>Sunnyvale, California www.keramed.com</p>	<p>KeraMed, Inc. Medical Devices</p>
<p>Technology Description: KeraKlear Artificial Cornea</p> <p>Company Description: KeraMed Inc. is a medical device company that specializes only in surgical devices and implants for the cornea. KeraMed Inc. has developed the KeraKlear Artificial Cornea. This device is the first foldable and non-penetrating artificial cornea. The KeraKlear can be implanted through a microincision of 3.5 mm diameter into a corneal pocket using a minimally invasive technique. This device addresses the unmet need of 10 million cornea blind patients around the world that do not have access to cornea donor tissue or a trained cornea transplant surgeon. The KeraKlear has European CE mark approval and has been used successfully in Europe, South America, Canada and Japan. KeraMed Inc. operates under the highest quality standards and is ISO-13485 certified, which allows it to design and manufacture ophthalmic medical devices for Europe and the United States.</p>	

 <p>Golden, Colorado www.kleinbuendel.com</p>	<p>Klein Buendel, Inc. Healthcare IT (software, simulation-based solutions, educations and training)</p>
<p>Technology Description: Health communication research and multimedia development</p> <p>Company Description: Klein Buendel, Inc. designs, develops and evaluates targeted public health interventions in collaboration with academic, public, and private partners. Our unique approach brings together a dynamic multimedia development team and leading research scientists with expertise in health communication and behavioral interventions to create sustainable health programs and products. Our Real Health Stock Photography (RHSP) website sells photos of real people with health inequities, disparities, disabilities, and health conditions exhibiting healthy behavior. Health organizations and graphic designers can purchase the photos and photographers can contribute photos that meet specific criteria. RHSP meets a national need because health care costs are escalating and minority, elderly, and overweight populations (for example) are increasing in the U.S. and need to be reached effectively.</p>	

 <p>Malvern, Pennsylvania www.lifesplicepharma.com</p>	<p>LifeSplice Pharma Biotechnology for Healthcare</p>
<p>Technology Description: Splice modulating oligonucleotides to treat ALS and other diseases</p> <p>Company Description: LifeSplice Pharma (LSP) develops novel and highly specific patent-protected splice modulating antisense oligomers (SMOs) targeting serious central nervous system (CNS) disorders and other non-CNS diseases. LSP's SMO products are based on the proven concept that aberrant pre-mRNA splicing produces defective or inactive proteins that in turn cause or exacerbate a large number of diseases. Dysfunctional (aberrant), pre-mRNA splicing is involved in a surprisingly large number of human diseases, with estimates as high as 50%. Thus, LSP's core business strategy relating to the development of SMO drugs that correct aberrant pre-mRNA splicing is a largely untapped strategy for the treatment of many diseases. The objective of this application is to obtain regulatory training support and guidance towards Lifesplice's initial IND filing for ALS.</p>	



Middleton, Wisconsin | www.lucigen.com

Lucigen Research Tools

Technology Description: Tools for discovering microbial pathways encoding small molecule natural products

Company Description: Lucigen delivers advanced molecular biology products and services to life scientists by inventing solutions to the most difficult problems in DNA cloning, amplification, protein expression, and next generation sequencing. One promising technology to access anti-infective small molecules, or natural products, is the new field of metagenomics, which bypasses cultivation and directly clones the DNA from a gene rich environment such as soil. This new technology has great promise because scientists can capture the DNA from the 99.9% of microbes that cannot be cultivated, resulting in the discovery of thousands of new small molecule pathways via next generation sequencing technologies. Over \$3M in multiple NIH SBIR grants has positioned Lucigen to deliver a powerful set of antimicrobial drug discovery tools. Our primary customers will be the approximately 800 Pharma and Biotech companies around the globe that develop or produce anti-infective compounds.



Detroit, Michigan | www.mrinnovations.com

Magnetic Resonance Innovations, Inc. Medical Devices

Technology Description: SPIN (Signal Processing In Nuclear) image processing software

Company Description: Magnetic Resonance Innovations, Inc. (MRI Inc.) designs and develops advanced MR image processing software that can perform a rapid and accurate quantitative analysis of neurovascular imaging data (including anatomical and hemodynamic) with applications in the scientific study of dementia, multiple sclerosis (MS), Parkinson's disease (PD), stroke and traumatic brain injury (TBI). We are modifying our technologies into autonomous, automated, scalable and open architecture processing modules that can be combined together, used separately or in conjunction with other products targeted for sale to radiology departments of hospitals, imaging centers, and research centers that deal with neurological diseases, either in an on-premise server or cloud based Software as a Service (SaaS).



Washington DC, | www.mediarez.com

Media Rez

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Relapse Prevention Motion and Voice Video Game

Company Description: Media Rez empowers health care consumers with innovative, patient-facing health interventions built using custom software and affordable hardware. We use video game technology for drug relapse prevention. Players stand and use vigorous body motion and refusal language voice commands (not a game controller) to fight off and escape from drugs in a virtual environment. They directly experience drugs as immediate dangers and gain a sense of mastery -- rehearsing refusal language is key to advancing. We use new approaches to solve old health problems, like virtual environments for diagnostics and treatment. This innovation harnesses the compelling power of video game technology for drug relapse prevention by using motion controlled video game-play.



Madison, Wisconsin | www.medicalcyberworlds.com

Medical Cyberworlds, Inc.

Virtual Learning

Technology Description: M-Pathic VR II - realistic, interactive virtual humans (VHs)

Company Description: MCI is an emerging provider of cutting-edge Virtual Human (VH) medical simulation and education solutions for healthcare. It uses its patented, VH technology to train people, assess skills, and certify competency in high-stakes interactions. The company's first product focuses on improving patient experience and health outcomes by training medical students and medical professionals to communicate more empathically with patients. A bi-directional interface lets users speak naturally with the VHs; it also enables capture and assessment of users' verbal, nonverbal, and cognitive behavior which, in turn, informs VHs' real-time reactions. Captured data can be used to train and certify communication competency, or to enable data mining/modeling across large cohorts of users. The technology can be delivered via numerous digital platforms, to a variety of users in many markets. No such technology is currently in commercial use.



Saint Louis, Missouri | www.mediomics.com

Mediomics, LLC

Diagnostics

Technology Description: Homogeneous assays for quick detection of HCV infection

Company Description: Mediomics mission is to develop robust, highly specific, sensitive and cost-effective molecular sensors that can be utilized in research, manufacturing process controls, medical diagnostics and pathogen detection. Mediomics has developed an innovative antibody-based homogeneous “mix and measure” protein detection methodology (molecular PINCERs), which allow detection of the presence of a target protein, a pathogen or specific antibodies by a simple fluorescence intensity measurement. The assay is rapid and extremely simple to perform, as it involves essentially no sample manipulation other than mixing the sample with the detection reagent. More than 350,000 people die from HCV-related liver diseases each year. The available tests are too expensive for routine use for plasma collection in US and in less developed countries, so there is an unmet need for low-cost, easy-to-use screening tests.



Lexington, Kentucky | www.mosquitomate.com

MosquitoMate, Inc.

Biotechnology for Healthcare

Technology Description: Autocidal tools against disease carrying mosquitoes

Company Description: MosquitoMate is developing new tools for controlling medically important mosquitoes. Our lead product is based on the proprietary use of a naturally-occurring bacterium, Wolbachia, to effectively sterilize mosquito populations. Due to the Wolbachia infection present in the introduced males, the females are effectively sterilized, resulting in population reduction and elimination. This approach does not require genetic modification, i.e., it's non-GMO, and is regulated in the USA by the EPA. Advantages of our approach include that it is a self-delivering technology and that it is species specific, with fewer non-target effects relative to existing approaches. With results from our NIH-funded Phase 2 work, we plan to apply for full EPA registration, allowing product sales.



Madison, Wisconsin | www.mycoverageplan.com

My Coverage Plan

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: SaaS Reducing Health Disparities

Company Description: My Coverage Plan, Inc. (MCP) is developing technology solutions to reduce health disparities. Tools include an accessible, web based, word-intuitive electronic health benefits screener that creates a personal electronic health care coverage “plan” for patients. My Coverage Plan's innovative decision support technology addresses patient health disparities, such as high debt burdens due to disorganized and episodic health care coverage. The MCP software service package helps providers accurately guide, identify, secure, and maintain coverage connections for disparity patients while improving the financial bottom line.

NanoNerve, Inc.


Berkeley, California

NanoNerve, Inc.


Medical Devices


Technology Description: Microfibrous graft implants for soft tissue regeneration

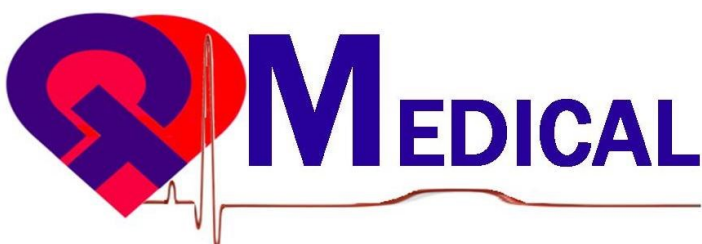
Company Description: NanoNerve, Inc., is a medical device company developing tissue engineered implant solutions for neurosurgery. NanoNerve's mission is to improve patient outcome by equipping neurosurgeons with innovative solutions that encourage rapid neural tissue recovery and minimize complications. The company's utilizes its patented aligned fiber technology to engineer neurosurgical graft implants with specific biophysical cues to enhance and direct neural tissue regeneration. The company's lead product is the dural graft, which is intended for use as a dura mater regenerative patch to protect the brain and spinal cord following complex invasive neurosurgeries.

 <p>Jacksonville, Florida www.nonagen.com</p>	<p>Nonagen Bioscience Corp. Diagnostics</p>
<p>Technology Description: Cancer Diagnostics</p> <p>Company Description: Nonagen Biosciences was founded in 2011 to improve the clinical evaluation of cancer patients by developing diagnostic and prognostic molecular biomarker signatures. Nonagen Biosciences has successfully developed a diagnostic signature for the non-invasive detection of primary and recurrent bladder cancer through urinalysis, and is engaged in pre-clinical and clinical studies with several major academic medical centers. We have developed non-invasive tests for the detection of bladder cancer. A protein-based detection assay monitors a panel of 10 biomarkers in naturally voided urine samples. A multiplex ELISA format enables the testing of minimal sample volumes. Quantitative analyses are used to derive a risk score that can be used as part of the clinical work-up for primary bladder cancer or for the surveillance of patients post-surgery. Studies are also under way to expand the utility to prognostication in order to aid in the choice of targeted therapy. Nonagen Bioscience is currently looking for a strategic partner for initial commercialization of its cancer detection assay.</p>	

 <p><i>Precision makes possible</i></p> <p>Kansas City, Kansas www.orbisbio.com</p>	<p>Orbis Biosciences Pharmaceuticals</p>
<p>Technology Description: Precision Particle Fabrication</p> <p>Company Description: Orbis Biosciences' Precision Particle Fabrication technology offers an efficient path to make products safer and more-convenient. It is the only technology with the capability to scalably produce monodisperse microparticles in a suitable size range for oral and injectable drugs. Through product uniformity and precision engineering, Orbis' technology offers unprecedented levels of control over the final product. The technology enables development of new drug formats such as syrups for pediatric and geriatric populations that were previously difficult to produce and allows for monthly injections where only weekly injections were possible. Orbis is currently developing twelve products internally and with leading pharmaceutical companies seeking delivery solutions for difficult-to-formulate products.</p>	

 <p>Fort Worth, Texas www.organizationalwellness.com</p>	<p>Organizational Wellness & Learning Systems</p> <p>Other</p>
<p>Technology Description: Workplace Wellness</p> <p>Company Description: Organizational Wellness & Learning Systems, Inc. (OWLS) helps create and sustain healthy workplaces. We use e-learning and classroom tools proven effective in rigorous research studies to reduce stress, build resilience, and support healthy leadership, healthy teams, and effective health champions in a variety of work settings. We also provide in-depth consultation to help organizations build a culture of health, guiding them to own long term strategies. One key tool is LiveWell-LeadWell (branded ExecuPrev™); this provides managers and leaders with a rich set of resources to improve leadership competency as well as wellness (see www.livewellleadwell.com; www.rawcopingpower.com).</p>	

 <p>South Kingstown, Rhode Island www.prochange.com</p>	<p>Pro-Change Behavior Systems, Inc</p> <p>Healthcare IT</p> <p>(software, simulation-based solutions, educations and training)</p>
<p>Technology Description: Teen Choices Program for Dating and Peer Violence Prevention</p> <p>Company Description: Pro-Change Behavior Systems, Inc. is committed to helping our partners enhance the health and well-being of individuals and organizations through the scientific development and dissemination of high-impact behavior change management programs based on leading theories of behavior change, especially the Transtheoretical Model. Our web-based technologies help transport behavior change research into practice by providing low-cost innovative tools that will facilitate the delivery of an efficacious intervention to the greatest number of individuals in educational settings. Computer-administered interventions offer several potential benefits: 1) they are low-cost; 2) they require little staff time or training to administer; 3) they allow a high degree of tailoring; and 4) they can be delivered with fidelity, following pre-programmed decision rules.</p>	



Diamond Bar, California | www.qtmedicalinc.com

QT Medical, Inc.

Medical Devices

Technology Description: ECG for long QT syndrome screening in newborns

Company Description: QT Medical, Inc. is a spinoff of the Los Angeles Biomedical Research Institute (LA BioMed) based in Torrance, CA. Incorporated in 2013, QT Medical aims to bring the QTScreen technology for long QT syndrome screening in newborns to commercialization. The long QT syndrome (LQTS) is a major cause of sudden death in infants, children, and young adults. In our Phase I STTR project, we successfully developed and tested an ECG device, QTScreen, designed specifically for LQTS screening in newborns. In Phase II, our goal is to prove the effectiveness of the QTScreen for LQTS screening in newborns in the U.S., so that QTScreen will be a marketable product and service for commercialization -- as a way to prevent deaths due to LQTS.



Tampa, Florida | www.saneron-ccel.com

Saneron CCEL Therapeutics, Inc.

Biotechnology for Healthcare

Technology Description: U-CORD-CELL: Umbilical cord blood cellular therapy

Company Description: Saneron is a biotechnology R&D company, focused on neurological and cardiac cell therapy for the early intervention and treatment of several devastating or deadly diseases, which lack adequate treatment options. Saneron is a University of South Florida spin-out company and is located at the Tampa Bay Technology Incubator. An affiliate of Cryo-Cell International Inc., Saneron is committed to providing readily available, non-controversial, ethically acceptable cells, both adult stem cells and other cell types, for cellular therapies. Our primary technology is U-CORD-CELL®, which has shown efficacy in animal studies of various diseases and disorders including: ALS, stroke, myocardial infarction, and Alzheimer's disease. The U-CORD-CELL® is considered minimally modified or manipulated and is derived from a proprietary processing procedure that isolates a mononuclear cell fraction of human umbilical cord blood.



Portland, Oregon | www.schrodinger.com

Schrödinger, LLC

Healthcare IT

(software, simulation-based solutions, educations and training)

Technology Description: Molecular modeling for drug discovery - expand into: Computational modeling for drug formulation

Company Description: Schrödinger is a scientific leader in computational chemistry, providing software solutions and services for life sciences and materials research. We sell modeling software or services to more than 300 companies (including all of the top 30 pharmaceutical companies), more than 2000 academic groups and more than 100 government laboratories. We have developed a technology that permits significantly faster simulations of GPCRs in membranes. GPCRs are the targets for roughly 50% of the drugs on the market and are an important target for drugs in development. Since GPCRs are very hard to crystallize, computer simulations can provide structural information needed for drug development. We are developing two new products based on this technology and want to explore the application of this technology to an entirely different and area, drug formulation. Drug formulation is a major challenge for the industry and faster simulation approaches can make the formulation process more effective.



Shrewsbury, Massachusetts | www.signablok.com

SignaBlok, Inc.

Biotechnology for Healthcare

Technology Description: Targeted nanodelivery of imaging agents and drugs

Company Description: SignaBlok, Inc. is a biopharmaceutical company founded in 2009 to develop innovative and first-in-class therapeutics and diagnostics for targeted macrophage treatment and imaging through the use of two key SignaBlok's proprietary technologies: 1) novel mechanism-based approach to cell receptor inhibition by using innovative inhibitory peptides (SCHOOL peptides); and 2) multifunctional nanoparticles for targeted delivery of imaging agents and drugs to macrophages. Company focuses on four core therapeutic and diagnostic areas: atherosclerosis, cancer, inflammatory and immune diseases.

SOFIEBIOSCIENCES

Culver City, California | www.sofiebio.com

Sofie Biosciences

Medical Devices

Technology Description: PET Imaging

Company Description: SOFIE is a Los Angeles-based molecular imaging company looking to improve patient outcomes through wider access to imaging biomarkers/probes. By combining new PET imaging probes with innovative imaging and chemistry technologies, SOFIE empowers a wide array of researchers and physicians with valuable, translational imaging technologies. Simply put, SOFIE is making PET scans more accessible. SOFIE seeks to leverage its previous research to create a benchtop, chip-based radiosynthesizer so the synthesis of diverse PET probes for clinical brain imaging that can be performed in a simple and convenient manner at a low cost.



Bedford, Massachusetts |
www.staranalyticalservices.com

Speech Technology & Applied Research Corp.

Medical Devices

Technology Description: Effective Conversation Assistance Technology

Company Description: STAR develops innovative solutions for speech- and hearing-related problems. Members of our team have over 30 years' experience with speech technologies and signal analysis. DTangle is an assistive conversation device that empowers effective and enjoyable conversations between willing partners (some of whom may have hearing deficits) in business and social environments. DTangle uses innovative, patented technology to “detangle” multiple simultaneous sound sources, suppressing distracting sounds and enhancing conversational speech. It also provides descriptive actionable information about conversations—such as the number of people talking simultaneously—that encourages changes in group behavior essential to achieving agreed-upon conversational norms.



San Diego, California | www.targeson.com

Targeson, Inc.

Biotechnology for Healthcare

Technology Description: Visistar P-Selectin, to detect the inflammatory cascade that occurs with an Acute Coronary Syndrome (ACS) [heart attack]

Company Description: Targeson, Inc. is a world leader in targeted microsphere technology for use as research tools for the medical research markets. Targeson has launched first-in-class angiogenesis targeted ultrasound imaging agents and first in class targetable transfection agents. Targeson owns Imagent (perflexane lipid microspheres), which has an approved NDA 21-19. Targeson also has recently been awarded an SBIR Phase 2 grant for \$1.6M to develop a targeted ultrasound contrast agent for the diagnosis of Acute Coronary Syndrome (ACS).




Manhasset, New York | www.therasourcellc.com

TheraSource, LLC

Biotechnology for Healthcare

Technology Description: Novel therapies for inflammatory diseases

Company Description: TheraSource LLC is a growing early-stage biotech company that aims to develop novel anti-inflammatory therapeutics, such as recombinant proteins, peptides, and small molecule compounds. TheraSource has both completed and ongoing pre-clinical studies of several drug candidates for various human diseases related to inflammation, including sepsis and inflammatory bowel disease. TheraSource R&D team discovered that MFG-E8 has anti-sepsis activities and acts by enhancing the clearance of dead cells, inhibiting the activation of inflammation signaling in cells, and preventing the excessive neutrophil retention that causes organ damage in sepsis. The company currently possesses 5 patented molecules with over 10 application patents to treat human diseases.

 <p>Baltimore, Maryland www.chadis.com</p>	<p>Total Child Health, Inc. Healthcare IT (software, simulation-based solutions, educations and training)</p>
<p>Technology Description: Child Health and Development Interactive System (healthcare IT)</p> <p>Company Description: Total Child Health licenses CHADIS, a web-based previsit screening, decision support and post-visit engagement system to facilitate evidence-based care for child health. Parents, teens and teachers complete questionnaires online from home or waiting room on computers, tablets or phones. Clinicians see results linked to decision support and listings of resources to prescribe. Families view milestones prepopulating their child's individual MemoryBook Care Portal from the questionnaires, alerts and prescribed resources or search the database. Doctors bill insurance for questionnaires and earn MOC credits. CHADIS documents Meaningful Use and Medical Home requirements. Researchers, insurers and states value CHADIS data. MemoryBook Care Portal has potential for advertising.</p>	

<p>Translational Sciences</p> <p>Memphis, Tennessee</p>	<p>Translational Sciences Biotechnology for Healthcare</p>
<p>Technology Description: Therapeutic monoclonal antibodies for cardiovascular disease and stroke</p> <p>Company Description: Translational Sciences is a biotechnology company initiating clinical development of a novel technology to prevent disability and death in patients with acute cardiovascular diseases and stroke. TS23 is a first-in-class antibody therapy, directed to a novel regulatory molecule, in a therapeutically validated pathway. Initial clinical development of TS23 is targeted to the prevention of complications following venous thromboembolism, which occurs in up to 50% of patients, or millions of patients annually, despite treatment with the best, standard of care, anticoagulation therapy.</p>	



St. Louis, Missouri | www.vasculox.com

Vasculox

Biotechnology for Healthcare

Technology Description: Anti-CD47 Monoclonal Antibodies

Company Description: Vasculox is a biotechnology company dedicated to developing novel anti-CD47 therapeutics for the prevention of certain complications of solid organ transplantation and for the treatment of other debilitating diseases and disorders. Vasculox has demonstrated that administration of anti-CD47 drug to a donor organ prior to transplantation improves organ function and recipient survival, preventing Ischemia-reperfusion injury (IRI) related complications following organ transplantation. Vasculox's approach has the potential not only to improve outcomes for transplant recipients but also to expand the pool of usable organs, thereby helping to address a critical unmet medical need.



Princeton, New Jersey | www.viocare.com

Viocare, Inc

Healthcare IT (software, simulation-based solutions, educations and training)

Technology Description: Nutrition assessment and behavior change technology

Company Description: Viocare, Inc. is a privately-held company dedicated to improving health and wellness, and is a premier supplier of software-based systems that support and empower lifestyle and behavior change based upon scientifically validated recommendations for improved nutrition. Our technology uses a scientifically validated process that captures a 90-day dietary history in as little as 20 minutes coupled with a proprietary analytics engine to deliver specific, personalized, concrete and actionable recommendations for dietary change.



Waltham, Massachusetts | www.vivonics.com

Vivonics, Inc.
Medical Devices

Technology Description: Shunt Flowmeter

Company Description: The charter of Vivonics is to develop innovative technologies that improve or maintain health, or that optimize the effectiveness of humans in complex systems, from the initial concept through to viable products. Vivonics has developed the Shunt Flowmeter, which provides a noninvasive means for measuring the volumetric flow rate of a bodily liquid through a shunt or catheter implanted within the body. The Shunt Flowmeter noninvasively provides an accurate and quantitative measure of the volumetric flow rate of CSF within a ventriculoperitoneal (VP) shunt, allowing physicians to make more informed decisions for treatment.



East Greenbush, New York | www.xos.com

X-Ray Optical Systems, Inc.
Diagnostics

Technology Description: X-ray Analyzer

Company Description: XOS® is a leading global provider of mission-critical materials-analysis equipment for industries and regulators that must control material quality and performance, from consumer products (e.g. toys) to electronics to petroleum industries. XOS leverages its world leadership in x-ray optics to supply application-specific analyzers that utilize X-Ray Fluorescence (XRF) technology to measure environmental and product contaminants such as lead, cadmium, chlorine, and sulfur. XOS has also developed X-Ray Diffraction (XRD) analyzers that measure crystal structures of a broad range of materials, applicable for measurements like real-time monitoring of phase transformation of Active Pharmaceutical Ingredients.